

Amendments to the Specification

Please insert the following paragraph and subtitle on the first page of the application above Background:

REFERENCE TO SEQUENCE LISTING SUBMITTED ELECTRONICALLY

The content of the electronically submitted sequence listing (Name: 09 839536.txt; Size: 1,803 bytes; and Date of Creation: October 22, 2010) filed herewith is incorporated herein by reference in its entirety.

Please replace the paragraph at page 40, lines 10-23 of the application as filed with the following replacement paragraph, marked to show changes:

Plasmids used for construction of transformation vectors used to introduce glucose transporters into cells of *Phaeodactylum* were constructed by adding appropriate restriction sites by PCR and inserting the coding region for the transporter of interest into pPha-T1. Plasmid pGlut-Phat used primers GLUTPHAT5' (GACTGGATCCATGGAGCCCAGCAGCAAG) (SEQ ID NO:1) and GLUTPATT3' (GACTAAGCTTTCACACTTGGGAATCAGC) (SEQ ID NO:2). Plasmid pHup-Phat used primers HUPPHAT5' (GATGAATTCATGGCCGGCGGTGGTGTAG) (SEQ ID NO:3) and HUPPHAT3' (GACTAAGCTTTTACTTCATCGCCTTTGAC) (SEQ ID NO:4). Plasmid pHxt2-Phat used primers HXT2PHAT5' (GGGAATTCATTCAAGATGTCTGAGTTCGCTAGAAG) (SEQ ID NO:5) and HXT2PHAT3' (CCCCGCATGCTTATTCCTCGGAAACTCTT) (SEQ ID NO:6). Plasmid pHxt4-Phat used primers HXT4PHAT5' (GGGAATCATTCAAGATGTCTGAAGAAGCT) (SEQ ID NO:7) and HXT4PHAT3' (CCTCTAGATTACTTTTTTCCGAACATC) (SEQ ID NO:8).

Please cancel the existing Sequence Listing for the above-identified application, replace it with the substitute Sequence Listing appended hereto, and insert the same at the end of the application.